# Lembar data produk Karakteristik

# ABL8MEM24012

regulated SMPS - 1 or 2-phase - 100..240 V AC -24 V - 1.2 A



#### Main

Main		
Range of product	Phaseo	
Product or component type	Power supply	
Power supply type	Regulated switch mode	
Input voltage	100240 V AC phase to phase, terminal(s): L1-L2 100240 V AC single phase, terminal(s): N-L1 120250 V DC	
Output voltage	24 V DC	an 
Rated power in W	30 W	
Input protection type	Integrated fuse (not interchangeable)	atau
Power supply output current	1.2 A	eses. La construction La const
Output protection type	Against short-circuits	
Ambient air temperature for operation	-2555 °C without 5570 °C with	entrika A

## Complementary

Complementary		
Input voltage limits	85264 V	
Network frequency	4763 Hz	
Inrush current	20 A	
Cos phi	0.5	
Efficiency	82 %	
Output voltage limits	22.228.8 V adjustable	
Power dissipation in W	6.6 W	
Current consumption	0.4 A at 240 V 0.65 A at 100 V	
Line and load regulation	+/- 3 %	
Residual ripple	250 mV	
Holding time	>= 10 ms at 100 V >= 150 ms at 230 V	
Connections - terminals	Screw type terminals for input connection, connection capacity: 2 x 0.142 x 2.5 mm <sup>2</sup> AWG 26AWG 14 Screw type terminals for output connection, connection capacity: 4 x 0.144 x 2.5 mm <sup>2</sup> AWG 26AWG 14	
Marking	CE	



Mounting support	35 x 15 mm symmetrical DIN rail	
	35 x 7.5 mm symmetrical DIN rail	
	Panel 2 screws, diameter : 4 mm	
Operating position	Vertical	
Operating altitude	2000 m	
Output coupling	Parallel	
	Series	
Name of test	Harmonic current emission conforming to EN/IEC 61000-3-2	
	Conducted emissions on the power line conforming to EN 55022 Class B	
	Electrostatic discharges conforming to EN/IEC 61000-4-2	
	Emission conforming to EN 50081-1	
	Induced electromagnetic field conforming to EN/IEC 61000-4-6	
	Primary outage conforming to IEC 61000-4-11	
	Radiated electromagnetic field conforming to EN/IEC 61000-4-3	
	Radiated emissions conforming to EN 55022 Class B	
	Rapid transient conforming to IEC 61000-4-4	
	Surge conforming to EN/IEC 61000-4-5	
Status LED	1 LED green for output voltage	
Depth	59 mm	
Height	100 mm	
Width	54 mm	
Product weight	0.195 kg	

### Environment

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Product certifications	CCSAus CSA 22-2 No 950
	CULus 508
	TUV 60950-1
	RCM
	EAC
	КС
Standards	UL 508
	CSA C22.2 No 60950-1
Environmental characteristic	EMC conforming to EN 55022 Class B
	EMC conforming to EN 61000-6-3
	EMC conforming to EN/IEC 61000-6-2
	EMC conforming to EN/IEC 61204-3
	Safety conforming to EN/IEC 60950-1
	Safety conforming to SELV
IP degree of protection	IP20 conforming to EN/IEC 60529
Ambient air temperature for storage	-4070 °C
Relative humidity	090 % during operation
	095 % in storage
Overvoltage category	Class II conforming to VDE 0106-1
Dielectric strength	Between input and output
MTBF reliability	406032 H with MIL-HDBK-217F calculation method

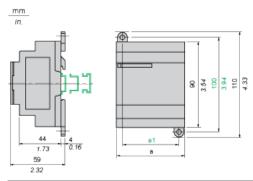
# Contractual warranty

Warranty period

18 months

# Regulated Switch Mode Power Supplies

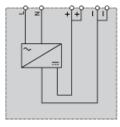
### Dimensions



	a in mm	a in in.	a1 in mm	a1 in in.
ABL8MEM05040	54	2.12	42	1.65
ABL8MEM12020	54	2.12	42	1.65
ABL8MEM24003	36	1.41	24	0.94
ABL8MEM24006	36	1.41	24	0.94
ABL8MEM24012	54	2.12	42	1.65
ABL7RM24025	74	2.91	60	2.36

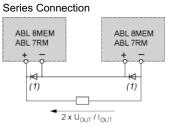
# Regulated Switch Mode Power Supply

# Internal Wiring Diagram



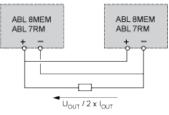
## Regulated Switch Mode Power Supplies

#### Series or Parallel Connection



(1) Two Shottky diodes Imin = power supply In and Vmin = 50 V

### Parallel Connection



Family	Series	Parallel
ABL 7RM/8MEM	2 products max.	2 products max.

NOTE: Series or parallel connection is only recommended for products with identical references.

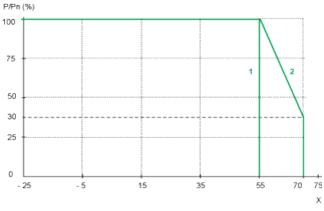
### **Regulated Switch Mode Power Supplies**

### Derating

The ambient temperature is a determining factor that limits the power an electronic power supply can deliver continuously. If the temperature around the electronic components is too high, their life will be significantly reduced.

The nominal ambient temperature for the Modular range of Phaseo power supplies is 55°C. Above this temperature, derating is necessary up to a maximum temperature of 70°C (except for the ABL7RM24025 model).

The graph below shows the power as a percentage of the nominal power that the power supply can deliver continuously, depending on the ambient temperature.



Х Maximum operating temperature (°C)

(1) With an ABL7RM24025

(2) With an ABL8MEM .....